

I. GENERAL

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THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE TRAFFIC SIGNAL AT MD 355 (ROCKVILLE PIKE)
AND MD 547 (STRATHMORE AVENUE) / GEORGETOWN PREP. ENTRANCE.
MD 355 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION IS TO OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE, WITH THE NORTHBOUND AND SOUTHBOUND MD 355 MOVEMENTS OPERATING CONCURRENTLY. AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 355 EASTBOUND AND WESTBOUND OPERATE SEPARATELY.

SPECIAL NOTES

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

DISTRICT

MR. CEDRIC WARD
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7498

MR. VICTOR GRAFTON
DISTRICT ENGINEER - UTILITIES
301-513-7350

MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7385

MR. VERNON STINNETT JR.
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

MONTGOMERY COUNTY

MR. ROBERT RICKETTS
TECHNICAL CENTER SUPERVISOR
PHONE NUMBER 240-876-3681

MR. KAMAL HAMUD
MONTGOMERY COUNTY-TRAFFIC ENGINEERING
PHONE NUMBER 301-777-8761

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION		
ITEM NO./	QUANTITY	DESCRIPTION
CAT CODE		

9000	1 EA	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED ASC III CONTROLLER
9000	1 EA	NEMA SIZE "S" BASE MOUNTED CABINET WITH INTERSECTION MONITOR
9000	1 EA	UNINTERRUPTABLE POWER SUPPLY
9000	1 EA	UPS BATTERIES (6 BATTERY BANK)
9000	1 EA	UPS BYPASS SWITCH
9000	1 EA	QUICK CONNECT BLOCK AND HARNESS FOR TELEMETRY INTERFACE PANEL
9570	85 SF	SHEET ALUMINUM GROUND POLE MOUNT SIGNS CONSISTING OF:
		S1-1, (36"x36"), POST MOUNT--6 EACH
		W16-7pR, (24"x12"), POST MOUNT--2 EACH
		W16-7pL, (24"x12"), POST MOUNT--4 EACH
		M3-1, (30"x15"), POST MOUNT--1 EACH
		M3-1, (24"x12"), POST MOUNT--1 EACH
		M1-5, (30"x24"), POST MOUNT--1 EACH
		M1-5, (24"x24"), POST MOUNT--1 EACH
		M6-1, (21"x15"), POST MOUNT--2 EACH
9571	110 SF	SHEET ALUMINUM MAST ARM/POLE MOUNT SIGNS CONSISTING OF:
		D-3(1), (VAR.-X16"), MAST ARM MOUNT--4 EACH
		R3-6L, (30"x36"), MAST ARM MOUNT--2 EACH
		R3-5(L), (30"x36"), MAST ARM MOUNT--1 EACH
		R3-5(R), (30"x36"), MAST ARM MOUNT--1 EACH
		R10-11b, (24"x24"), MAST ARM MOUNT--1 EACH
		ASSOCIATED SHIELD ASSEMBLY, (48"x72"), POLE MOUNT--1 EACH
		ASSOCIATED SHIELD ASSEMBLY, (30"x48"), POLE MOUNT--1 EACH

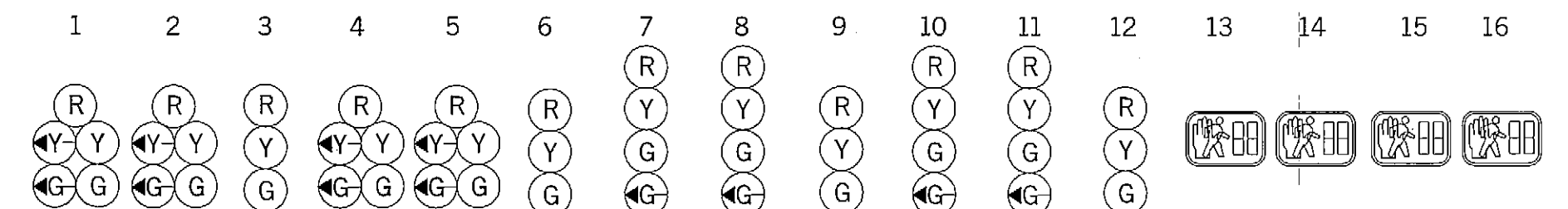
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO. / CAT CODE	QUANTITY	DESCRIPTION
1001	3 EA	MAINTENANCE OF TRAFFIC
2001	70 CY	CLASS II EXCAVATION
2002	5 CY	TEST PIT EXCAVATION
5002	10 LF	5" HEAT APPLIED WHITE PERMANENT PAVEMENT MARKINGS
5003	1500 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH
5004	1550 LF	12 INCH WHITE PERFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	150 LF	24 INCH WHITE PERFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	400 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	1400 SF	5 INCH CONCRETE SIDEWALK
6003	95 SF	DETECTABLE WARNING SURFACE FOR CURB RAMP
8001	48 EA	12 INCH LED SIGNAL HEAD SECTION
8002	1 EA	2-WIRE CENTRAL CONTROL UNIT
8006	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON STATION AND SIGNS
8009	4 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	1 EA	EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH
8015	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8018	1 EA	MAST ARM POLE AND 50 FOOT MAST ARM ANY 'T' DIMENSION
8019	1 EA	MAST ARM POLE AND 60 FOOT MAST ARM ANY 'T' DIMENSION
8023	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8025	1 EA	TWIN MAST ARM POLE AND 50' / 60' MAST ARMS ANY 'T' DIMENSION
8028	6 EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8030	350 LF	1-CONDUCTOR ELECTRICAL CABLE, NO. 2 AWG/THHN
8031	50 LF	12-PAIR COMMUNICATION CABLE, JELLY FILLED/UNDERGROUND
8037	20 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT -BORED
8039	390 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED
8040	150 LF	WOOD SIGN SUPPORTS UP TO 4"x6"
8041	196 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8043	500 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR CONT.

ITEM NO. / CAT CODE	QUANTITY	DESCRIPTION
8046	50 LF	ELECTRICAL CABLE 1-CONDUCTOR NO.8 AWG-THHN/THWN
8047	6 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8048	5 LF	ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
8056	1350 LF	ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG)
8057	1750 LF	ELECTRICAL CABLE-7 CONDUCTOR (NO. 14 AWG)
8063	1 EA	INSTALL CONTROLLER AND CABINET-BASE MOUNT (ANY SIZE)

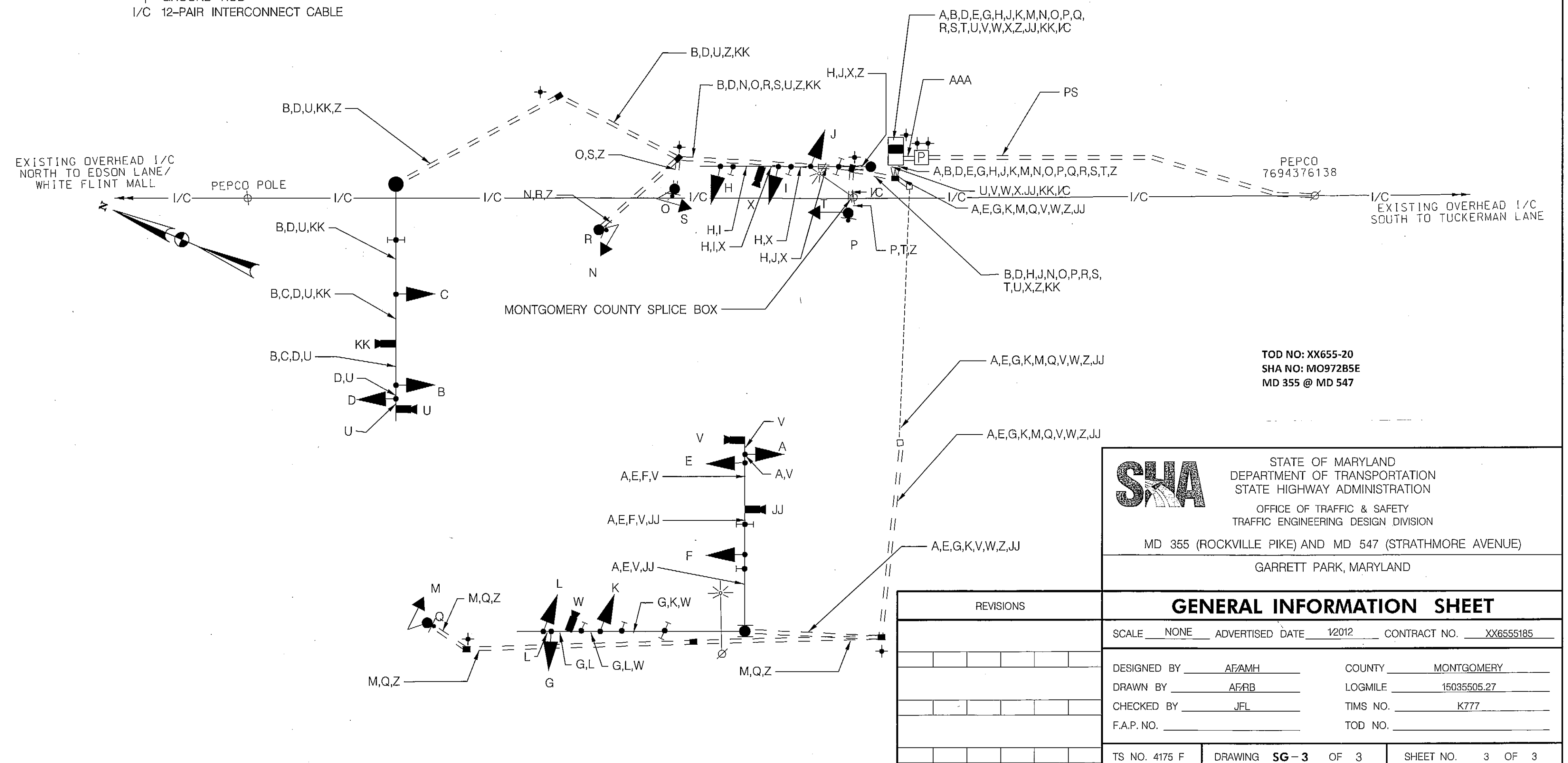
C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



PHASE 1 AND 5	◀G-	◀G-	R	◀G-	◀G-	R	R	R	R	R	R	R	R	DW	DW	DW	DW	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																		
PHASE 1 AND 6	◀GG	◀GG	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	
1 AND 6 CHANGE	◀YY	◀YY	Y	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 AND 5	R	R	R	◀GG	◀GG	G	R	R	R	R	R	R	R	DW	DW	DW	DW	
2 AND 5 CHANGE	R	R	R	◀YY	◀YY	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	DW	DW	W	W	
PED. CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	R	DW	DW	FDW	FDW	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 3	R	R	R	R	R	R	◀GG	◀GG	G	R	R	R	R	DW	DW	DW	DW	
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	
PHASE 4	R	R	R	R	R	R	R	R	R	◀GG	◀GG	G	DW	DW	DW	DW		
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW		
PHASE 4 ALT.	R	R	R	R	R	R	R	R	R	◀GG	◀GG	G	W	W	DW	DW		
PED. CLEARANCE	R	R	R	R	R	R	R	R	R	◀GG	◀GG	G	FDW	FDW	DW	DW		
4 ALT. CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW		
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK		

PROPOSED WIRING KEY

A,B,D,E,G,H,J,K	ELECTRICAL CABLE – 7 CONDUCTOR (NO. 14 AWG)
C,F,I,L,M,N,P,S	ELECTRICAL CABLE – 5 CONDUCTOR (NO. 14 AWG)
O,Q,R,T	ELECTRICAL CABLE – 2 CONDUCTOR (NO. 14 AWG)
AAA	3-1 CONDUCTOR NO. 8 AWG–THHN/THWN
Z	NO. 6 AWG STRANDED BARE COPPER BARE COPPER GROUND WIRE
U,V,W,X,J,K,KK	VIDEO DETECTION CONTROL CABLE
PS	POWER SOURCE (1-CONDUCTOR 3-WIRE ELECTRICAL CABLE, NO. 2 AWG/THHN)
⚡	GROUND ROD
I/C	12-PAIR INTERCONNECT CABLE



TOD NO: XX655-20
SHA NO: MO972B5E
MD 355 @ MD 547



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (ROCKVILLE PIKE) AND MD 547 (STRATHMORE AVENUE)

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 1/2012 CONTRACT NO. XX6555185

DESIGNED BY AFAMH COUNTY MONTGOMERY

DRAWN BY AFRB LOGMILE 15035505.27

CHECKED BY JFL TIMS NO. K777

TS NO. 4175 F	DRAWING SG-3 OF 3	SHEET NO. 3 OF 3
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